

No. 36,582. Shingle Jointing Machine.*(Machine à dresser le bardeau.)*

George Cassady, Vancouver, British Columbia, Canada, 11th May, 1891; 5 years.

Claim.—1st. In a shingle jointing machine, the combination of a saw bench A, having arbor A', and saw A¹, the table B, having slots b, and guide rods B', the block C, having long hubs c, engaged by said guide rods and the table D, substantially as set forth. 2nd. A saw bench A, having arbor A', and saw A¹, table B, with slots b, and guide rods B', slide C, with hubs c, engaged by said rods, a table D, combined with any bench of the same construction, substantially as set forth. 3rd. A saw bench A, having arbor A', and saw A¹, table B, with slots b, and guide rods B', slide C, with hubs c, engaging said rods and table D, in combination with a table E, having arbor E', saw E¹, and slide E², E³, or common knot saw bench, substantially as set forth.

No. 36,583. Roller Mill. *(Moulin à rouleaux.)*

Frank H. Brewster, Escanaba, Michigan, U.S.A., 11th May, 1891; 5 years.

Claim.—1st. In a roller mill and in combination with the lever bearing supporting the movable roll, the pivot pin passing through said lever and having its periphery curved in the direction of its length, substantially as described. 2nd. In a roller mill and in combination with the independent lever bearings at the ends of the movable rolls, and independent adjusting and tension devices applied to said levers, the curved faced fulera upon which the levers are mounted, substantially as described. 3rd. In a roller mill, the combination of the two lever bearings for the movable roll, the screws pivotally connected to said lever bearings and protruded through a fixed portion of the frame, the limiting collars applied to said screws, the wedges supported to reciprocate in guides laterally of the screws and between the collars, and the fixed portion of the frame an actuating lever and links connecting said lever to the wedges at opposite ends of the roll, substantially as described. 4th. In a roller mill and in combination with the bearings of the movable roll and the adjusting and tension devices applied thereto, a double wedge interposed between a collar or abutment on each adjusting device and a fixed support, a lever and links connecting the members of the double wedge on opposite sides of the pivot of said lever, substantially as described. 5th. In a roller mill and in combination with the adjusting screws and the limiting collars applied thereto, wedges guided to reciprocate transversely of the screws and resting upon a fixed portion of the frame, and non-rotating supports interposed between the wedges and the limiting collars on the screws to receive the thrust of the wedges, and transmit motion to the screws, substantially as described. 6th. In a roller mill, the combination, with the independent lever bearings for the movable rolls, the screws flexibly connected to said lever bearings, and the adjustable collars applied to said screws of the sliding wedges connected to be moved in unison and mounted in guides on the frame between the lever bearings and the adjustable collars, and a support or block guided to reciprocate with the screw and held from rotation, said block or support being interposed between the wedge and adjustable collar on the screw, substantially as described.

No. 36,584. Spile for Bung-Holes of Beer Casks, etc. *(Foret pour trou de bondon de baril à bière, etc.)*

David Sharp, Monkwearmouth, Durham, England, 11th May, 1891; 5 years.

Claim.—In a spile, the combination of the ball valve, lids, branch, and tube, substantially as described and for the purpose specified.

No. 36,585. Wooden Dish Machine.*(Machine pour faire les plats de bois.)*

Charles W. Calkins, Grand Rapids, Michigan, U.S.A., 11th May, 1891; 5 years.

Claim.—1st. A machine for cutting dishes from wood, consisting of a stationary frame for supporting the knife drum, a rotary table concave-convex knives secured to and projecting upward from the centre of the top of the frame, an opening in the centre of the top of the frame between the base of the knives for the escape of the dishes when cut, a table made to rotate upon a stationary frame around the knives, guides upon the table for supporting the blocks and conducting them towards the knives, mechanism for feeding the blocks toward the knives, and mechanism for rotating the table, substantially as and for the purpose set forth. 2nd. The combination, in a machine for cutting dishes from wood, of a circular base for the support of the machine provided with pinions for driving and rollers for supporting the table, a hollow drum for supporting the knives provided with apertures at the edges of the knives for the passage of dishes, a large opening below for the escape of the dishes, and a solid cap, a table having a rack or gear upon its under surface to mesh with the pinion M, for propelling the table, a yoke secured to the table and passing over the drum, a pin at the top of the drum for the yoke to work upon, a series of guards for conducting the blocks toward the drum, a carriage and mechanism for forcing the carriage and blocks toward the drum, concave-convex knives secured to the drum and having their edges so curved as to effect a perfect shearing cut, substantially as specified. 3rd. The combination in a machine for cutting dishes from wood, of a base having an aperture at the centre for the reception of a knife, drum pinions for driving the tables, rollers for supporting and carrying the table, a knife drum attached firmly to its base, its upper end enclosed with a solid cap, the lower end open downward, and openings through its surface back of the edges of the knives, knives attached to the

drum, their form corresponding to the form of the dish to be cut, a table having a rack or gear on its lower surface, the surface of the table inclining downward toward the drum and provided with an aperture around the drum, a yoke to support the centre of the table and arranged to work upon a pin at the top of the drum guides, carriages having threaded boxes, solid standards, latches, feed screws provided at one end with ball bearings and at the opposite end with friction rollers, trips attached to the base to operate the feed screws, guards attached to the inner ends of the guides and provided with ball sockets for the reception of the ends of the feed screws, substantially as specified. 4th. The combination, in a machine for cutting dishes from wood, of a base, pinions, shafts, an idler, a knife, drum, curved knives attached to the drum, a table provided with guides, a yoke for supporting the centre of the table, a rack on the lower surface of the table carriages, feed screws, slotted supports for the feed screws, friction rollers and stationary strips, substantially as specified.

No. 36,586. Table for Invalids.*(Table pour invalides.)*

Azarie Brodeur, Montreal, Quebec, Canada, 11th May, 1891; 5 years.

Résumé.—Un nouvel article de manufacture, une table mécanique pour malades et invalides composée d'un tableau B, disposé en porte à faux au moyen des jambes de force k, l, de l'anneau G, et de la vis de serrage H, au tour d'un pivot central A, a vis b, c, roue a main D, étui c, d, e, h, i, le tout monté sur un trepied F, F', le tout tel que ci-dessus décrit et pour les fins sus-mentionnées.

No. 36,587. Handle for Hand Phones.*(Manche de récepteur téléphonique.)*

Joseph Hector Le Maitre and John Francis Le Maitre, both of Toronto, Ontario, Canada, 12th May, 1891; 5 years.

Claim.—1st. The combination, with a hand phone F, of a detachable handle A, substantially as described. 2nd. A handle A, provided with an eye B, in combination with a plate or band C, secured to the said eye and designed to grasp the hand phone F, substantially as described.

No. 36,588. Furnace. *(Fournaise.)*

Jacques Hartenstein, Montreal, Quebec, Canada, 12th May, 1891; 5 years.

Résumé.—1o. Dans une fournaise, la combinaison des pièces A, B, E, D, F, G, s'émboîtant les unes dans les autres et enveloppées par le cylindre C, tel que décrits et pour les fins mentionnées. 2o. Dans une fournaise la combinaison des pièces A, B, E, D, F, G, s'émboîtant les unes dans les autres et enveloppées par le cylindre C, avec le cendrier I, composé des pièces a et c, et du gril composé des parties I et J, tel que décrits et pour les fins mentionnées.

No. 36,589. Heat Controlling Device.*(Appareil pour contrôler la chaleur.)*

William Penn Powers, Chicago, Illinois, U.S.A., 12th May, 1891; 5 years.

Claim.—1st. In a heat controlling device, the combination, with a thermostat having a vaporizing chamber to contain a volatile liquid, said chamber having one or more flexible walls adapted to be flexed by the volatilization of the liquid, a second chamber and a pipe leading therefrom, whereby to confine a body of air or other fluid in contact with said flexible wall, and a pressure chamber with which said pipe communicates and having a diaphragm or other piston, and suitable operating devices actuated by said diaphragm, whereby the movement of the wall of the vaporizing chamber is transmitted through the interposed air or other fluid column to the diaphragm of the pressure chamber, substantially as described. 2nd. In a heat regulating apparatus, a double diaphragm composed of two elastic sheets, one of which forms, one wall of a pressure chamber to operate by pressure of steam, the other designed to operate by a fluid pressure transmitted through a pipe and caused by the volatilization of a liquid vaporizing at about the temperature sought to be maintained, the diaphragms being so arranged that the effect desired is produced by the action of either cause independently, substantially as described. 3rd. In a heat regulating device, a vaporizing chamber to contain a volatile liquid, a movable side or wall normally under tension, such tension tending to enlarge the vaporizing chamber and thereby produce a lowering of the pressure upon the contents thereof, and consequently a lower point of vaporization for the purpose of securing action at a lesser degree of heat, as and for the purpose specified. 4th. In a heat controlling device, the combination, with a thermostat, of a damper or ventilator actuating device comprising two diaphragms secured within a pressure chamber, and having a space between their opposing surfaces, a tube communicating with said space and with the thermostat, and a steam generating boiler communicating with the chamber below the diaphragms, substantially as described.

No. 36,590. Strap and Buckle Shields.*(Couverture de courroie et boucle.)*

George H. Nicholls, Galveston, Texas, U.S.A., 12th May, 1891; 5 years.

Claim.—A strap shield composed of a flat elongated plate having parallel side edges and having a slot longitudinally formed in said plate near its transverse centre, and two pairs of limbs projected in the same direction from the side edges of the plate, and bent toward each other in pairs to loosely clasp a strap, substantially as set forth.